What Is Claimed Is:

1	1. A method for manipulating a window within a three-dimensional
2	(3D) display model, comprising:
3	displaying a view into the 3D display model through a two-dimensional
4	(2D) display;
5	receiving a command to manipulate the window within the 3D display
6	model, wherein the window provides a 2D user interface for a 2D application; and
7	in response to the command, manipulating the window within the 3D
8	display model so that the manipulation is visible within the 2D display.
1	2. The method of claim 1, wherein if the command moves the
2	window in close proximity to an edge of the 2D display, the method further
3	comprises tilting the window so that the window appears at an oblique angle in
4	the 2D display, whereby the contents of the window remain visible, while the
5	window occupies less space in the 2D display and is less likely to overlap other
6	windows.
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1	3. The method of claim 2, wherein if the window is selected, the
2	method further comprises untilting the window so that the window is parallel with
3	the 2D display.
1	4. The method of claim 1, wherein if the command rotates the
2	window so that the backside of the window is visible, the method further
3	comprises displaying information associated with the 2D application on the
4	backside of the window.

1	5. The method of claim 4, wherein the information associated with
2	the 2D application can include:
3	application version information;
4	application settings;
5	application parameters;
6	application properties; and
7	notes associated with a file or a web page that is displayed in the window.
1	6. The method of claim 4, wherein the backside of the window can
2	accept user input, including change settings, parameters, properties and/or notes.
1	7. The method of claim 1, wherein if the command is to minimize the
2	window, manipulating the window involves:
3	tilting the window so that a spine located on a side edge of the window is
4	visible and the contents of the window remains visible, wherein the spine contains
5	identification information for the window; and
6	moving the minimized window to an edge of the 2D display;
7	wherein the operations of turning and moving the window are animated as
8	a continuous motion.
1	8. The method of claim 1, further comprising:
2	receiving a predefined gesture through a pointing device, and
3	in response to the predefined gesture, minimizing a top-level window in
4	the 2D display, whereby repeating the predefined gesture causes subsequent top-
5	level windows to be minimized.

1	9.	The method of claim 8, wherein upon receiving a window
2		mmand, the method further comprises restoring minimized windows
3	to their expand	·
3	to their expans	aca state.
1 2 3 4	quickly and re	The method of claim 1, wherein if the command is entered through vice and the command throws the window by moving the window eleasing it, the method further comprises throwing the window by vindow in a continuous animated motion.
1	11.	The method of claim 10, wherein throwing the window can
2	involve:	
3	locati	ng the window farther from the viewpoint;
4	scalin	ng down the size of the window;
5	iconi	zing the window; and
6	deleti	ing the window.
1	12.	The method of claim 1, wherein receiving the command involves:
2	rotati	ing the window so that window controls on the edge of the window
3	become visi	ble in response to a cursor moving close to an edge of a window;
4		iving the command through a window control; and
5	rotat	ing the window back to its original orientation.
1 2 3 4	manipulatir	A computer-readable storage medium storing instructions that atted by a computer cause the computer to perform a method for a window within a three-dimensional (3D) display model, the apprising:

5	displaying a view into the 3D display model through a two-dimensional
6	(2D) display;
7	receiving a command to manipulate the window within the 3D display
8	model, wherein the window provides a 2D user interface for a 2D application; and
9	in response to the command, manipulating the window within the 3D
10	display model so that the manipulation is visible within the 2D display.
1	14. The computer-readable storage medium of claim 13, wherein if the
2	command moves the window in close proximity to an edge of the 2D display, the
3	method further comprises tilting the window so that the window appears at an
4	oblique angle in the 2D display, whereby the contents of the window remain
5	visible, while the window occupies less space in the 2D display and is less likely
6	to overlap other windows.
1 2 3	15. The computer-readable storage medium of claim 14, wherein if the window is selected, the method further comprises untilting the window so that the window is parallel with the 2D display.
1	16. The computer-readable storage medium of claim 13, wherein if the
2	command rotates the window so that the backside of the window is visible, the
3	method further comprises displaying information associated with the 2D
4	application on the backside of the window.
1	17. The computer-readable storage medium of claim 16, wherein the
2	information associated with the 2D application can include:
3	application version information;
4	application settings;

,	application parameters;
5	application properties; and
7	notes associated with a file or a web page that is displayed in the window.
i	18. The computer-readable storage medium of claim 16, wherein the
2	backside of the window can accept user input, including change settings,
3	parameters, properties and/or notes.
1	19. The computer-readable storage medium of claim 13, wherein if the
2	command is to minimize the window, manipulating the window involves:
3	tilting the window so that a spine located on a side edge of the window is
4	visible and the contents of the window remains visible, wherein the spine contains
5	identification information for the window; and
6	moving the minimized window to an edge of the 2D display;
7	wherein the operations of turning and moving the window are animated as
8	a continuous motion.
1	20. The computer-readable storage medium of claim 13, wherein the
2	method further comprises:
3	receiving a predefined gesture through a pointing device, and
4	in response to the predefined gesture, minimizing a top-level window in
5	the 2D display, whereby repeating the predefined gesture causes subsequent top-
6	level windows to be minimized.
1	21. The computer-readable storage medium of claim 20, wherein upon
2	receiving a window restoration command, the method further comprises restoring
3	minimized windows to their expanded state.

1	22. The computer-readable storage medium of claim 13, wherein if the
2	command is entered through a pointing device and the command throws the
3	window by moving the window quickly and releasing it, the method further
4	comprises throwing the window by moving the window in a continuous animated
5	motion.
1	23. The computer-readable storage medium of claim 22, wherein
2	throwing the window can involve:
3	locating the window farther from the viewpoint;
4	scaling down the size of the window;
5	iconizing the window; and
6	deleting the window.
1	24. The computer-readable storage medium of claim 13, wherein
2	receiving the command involves:
3	rotating the window so that window controls on the edge of the window
4	become visible in response to a cursor moving close to an edge of a window;
5	receiving the command through a window control; and
6	rotating the window back to its original orientation.
1	25. An apparatus that manipulates a window within a three-
2	dimensional (3D) display model, comprising:
3	a two-dimensional (2D) display configured to display a view into the 3D
4	display model;

5	a window manipulation mechanism configured to receive a command to
6	manipulate the window within the 3D display model, wherein the window
7	provides a 2D user interface for a 2D application; and
8	wherein in response to the command, the window manipulation
9	mechanism is configured to manipulate the window within the 3D display model
10	so that the manipulation is visible within the 2D display.
	and the second the
1	26. The apparatus of claim 25, wherein if the command moves the
2	window in close proximity to an edge of the 2D display, the window manipulation
3	mechanism is configured to tilt the window so that the window appears at an
4	oblique angle in the 2D display, whereby the contents of the window remain
5	visible, while the window occupies less space in the 2D display and is less likely
6	to overlap other windows.
1	27. The apparatus of claim 26, wherein if the window is selected, the
2	window manipulation mechanism is configured to until the window so that the
	window is parallel with the 2D display.
3	Window is paraner with the 2D display.
1	28. The apparatus of claim 25, wherein if the command rotates the
2	window so that the backside of the window is visible, the window manipulation
3	mechanism is configured to display information associated with the 2D
4	application on the backside of the window.
	as The state of the second the information associated with
1	29. The apparatus of claim 28, wherein the information associated with
2	the 2D application can include:
3	application version information;

application settings;

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application parameters;
application properties; and
notes associated with a file or a web page that is displayed in the window.
The apparatus of claim 28, wherein the backside of the window can
accept user input, including change settings, parameters, properties and/or notes.
The apparatus of claim 25, wherein if the command is to minimize
the window, the window manipulation mechanism is configured to:
tilt the window so that a spine located on a side edge of the window is
visible and the contents of the window remains visible, wherein the spine contains
identification information for the window; and to
move the minimized window to an edge of the 2D display;
wherein the operations of turning and moving the window are animated as
a continuous motion.
The apparatus of claim 25, wherein the window manipulation
mechanism is additionally configured to:
receive a predefined gesture through a pointing device, and
in response to the predefined gesture, to minimize a top-level window in
the 2D display, whereby repeating the predefined gesture causes subsequent top-
level windows to be minimized.
33. The apparatus of claim 32, wherein upon receiving a window
restoration command, the window manipulation mechanism is configured to
restore minimized windows to their expanded state.

1	34. The apparatus of claim 25, wherein if the command is entered
2	through a pointing device and the command throws the window by moving the
3	window quickly and releasing it, the window manipulation mechanism is
4	configured to throw the window by moving the window in a continuous animated
5	motion.
1	The apparatus of claim 34, wherein throwing the window can
2	involve:
3	locating the window farther from the viewpoint;
4	scaling down the size of the window;
5	iconizing the window; and
6	deleting the window.
1	36. The apparatus of claim 25, wherein while receiving the command,
2	the window manipulation mechanism is configured to:
3	rotate the window so that window controls on the edge of the window
4	become visible in response to a cursor moving close to an edge of a window;
5	receive the command through a window control; and to
6	rotate the window back to its original orientation.
1	37. A means for manipulating a window within a three-dimensional
2	(3D) display model, comprising:
3	a two-dimensional (2D) display means for displaying a view into the 3D
4	display model;
5	a window manipulation means configured to receive a command to
6	manipulate the window within the 3D display model, wherein the window
7	provides a 2D user interface for a 2D application; and
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- 8 wherein in response to the command, the window manipulation means
- 9 manipulates the window within the 3D display model so that the manipulation is
- 10 visible within the 2D display.